Mumbai University

Question Paper

[CBSGS – 60:40 Pattern]
(October – 2014)

Paper - III

Data

Warehousing

Time: 2 ½ Hours   **Total Marks:** 60

N.B.: **(1)** *All Question are Compulsory.*
  (2) *Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.*
  (3) *Answer To The Same Question Must Be Written Together.*
  (4) *Number To The Right Indicates Marks.*
  (5) *Draw Neat Labeled Diagrams Wherever Necessary.*
  (6) *Use of Non – Programmable Calculator is allowed.*

Q.1   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A)   What is Data Warehouse? Explain.   **(5)**
(B)   Explain Data Warehouse Architecture.   **(5)**
(C)   Differentiate OLTP Database and Data Warehouse.   **(5)**
(D)   Explain Star Schema Model and Snow Flake Model.   **(5)**

Q.2   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A)   What is the role of a listener when using the Oracle Database? Is it necessary to install the listener before the creation of the database?   **(5)**
(B)   Why and how is repository and workspaces configured?   **(5)**
(C)   What is defined in the Project Explorer Window, Connection Explorer Window and Global Explorer Window in the Design Center Screen?   **(5)**
(D)   Explain the two steps involved in configuring Oracle to connect to SQL Server Database.   **(5)**

Q.3   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A)   What is the significance of Time Dimension in a Data Warehouse?   **(5)**
(B)   **(i)** *Every editor in OWB has an area in which the contents are displayed graphically. Name and explain the same.*   **(5)**
      (ii) *Name and explain the window that displays the configuration information about items in the canvas.*
(C)   Explain Name, Storage and Attributes tab in Dimension Details Window in the OWB Editor.   **(5)**
(D)   Explain Name, Storage, Dimensions, Measures and Aggregations tab in Cube Details Window.   **(5)**

Q.4   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A)   What is the importance of staging process while creating a Data Warehouse?   **(5)**
(B)   Explain any three source and target operators provided by Warehouse Builder.   **(5)**
(C)   What is the role of Constraints, Attribute Sets and Data Rules tab in OWB Editor for a table?   **(5)**
(D)   Write down the steps involved in creating a mapping.   **(5)**

Q.5   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A)   What is the role of TRIM(), UPPER(), SUBSTR Operator and TO_NUMBER () in ETL mapping?   **(5)**
(B)   How does validation play an important role in the process of building the Data Warehouse?   **(5)**
(C)   What are the different default operation modes of the mapping?   **(5)**
(D)   Explain the importance of the seven columns in the object details window.   **(5)**

Q.6   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A)   What is the importance of staging process while creating a Data Warehouse?   **(5)**
(B)   Explain any three source and target operators provided by Warehouse Builder.   **(5)**
(C)   What is the role of Constraints, Attribute Sets and Data Rules tab in OWB Editor for a table?   **(5)**
(D)   Write down the steps involved in creating a mapping.   **(5)**